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APPLICATION NO.	FILING DATE 02/21/2006		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/568,922			Payagalage Surendre Gerard Perera	IPLTP0104US	9226	
Don W. Bulson	7590	06/26/2007	•	EXAMINER		
Renner, Otto, B	oisselle &	Sklar		MAI, HAO D		
1621 Euclid Av 19th Floor	enue	·		ART UNIT	PAPER NUMBER	
Cleveland, OH	44115		•	3709		
				MAIL DATE	DELIVERY MODE	
			•	06/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
	Office Action Summary	10/568,922	PERERA, PAYAGALAGE SURENDRE GERARD				
	,	Examiner	Art Unit				
		Hao D. Mai	3709				
Period fo	<ul> <li>The MAILING DATE of this communication ap or Reply</li> </ul>	opears on the cover sheet t	with the correspondence address –				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPI CHEVER IS LONGER, FROM THE MAILING I nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN. .136(a). In no event, however, may a d will apply and will expire SIX (6) MO te, cause the application to become	IICATION. a reply be timely filed  DNTHS from the mailing date of this communication ABANDONED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 21 i	February 2006.					
•	This action is <b>FINAL</b> . 2b)⊠ Th						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the							
	closed in accordance with the practice under	Ex parte Quayle, 1935 C	D. 11, 453 O.G. 213.				
Disposit	ion of Claims						
4)🖂	Claim(s) 1-5 is/are pending in the application						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[	Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>1-5</u> is/are rejected.						
•	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/	or election requirement.					
Applicat	ion Papers						
9)🔀	The specification is objected to by the Examir	ner.					
10)⊠	The drawing(s) filed on 21 February 2006 is/a	ire: a)⊠ accepted or b)⊑	objected to by the Examiner.				
	Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the corre			).			
11)	The oath or declaration is objected to by the E	Examiner. Note the attach	ed Office Action or form PTO-152.				
<b>Priority</b>	under 35 U.S.C. § 119						
,	Acknowledgment is made of a claim for foreig ☑ All b) ☐ Some * c) ☐ None of:	•	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority documer						
	2. Certified copies of the priority documer						
	3. Copies of the certified copies of the pri	-	n received in this National Stage				
	application from the International Bure	, , , , , , , , , , , , , , , , , , , ,	A second				
* (	See the attached detailed Office action for a lis	st of the certified copies no	ot received.				
Attachmer	nt(s)						
1) 🗵 Notic	ce of References Cited (PTO-892)		Summary (PTO-413)				
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)		o(s)/Mail Date f Informal Patent Application				
	er No(s)/Mail Date	6)  Other: _					

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#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claim 4 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The eyelet 8 in figures 1 and 3 is understood to be the claimed attachment means. However, there is no description of how the attachment means (i.e. eyelet) would allow for attachment of restraining means to temporarily restrain the action of the spring to facilitate fitting of the brace.

Note that claim 4 is further rejected under prior art (below) as best understood.

### Claim Objections

- 3. Claims 1 is objected to because of the following informalities:
  - a. The semicolon in line 10 should be a period. Correction is required.
  - b. The limitation "spring with no tooth-borne component" (lines 8-10) is not consistent with the drawings. The drawings demonstrate the springs being very much tooth-borne as they are attached to the molars via the gripping bands, tubes, and arms of the side pieces. Correction is required.

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# Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Bowman et al. (U.S. Pub. No. 2003/0091952 A1).

#### In Reference to Claim 1:

A corrective orthodontic brace (Figure 5) comprising:

- a support plate (106), so shaped as to fit closely, in use, against the keratinised tissue of a user's palate, whilst seating adjacent but free of the incisive papilla;
- side pieces (102 and 104) extending from opposite side regions of said support plate to lie, in use, adjacent respective upper molars on opposite sides of the mouth and adapted to grip the or each such molar to be corrected, via a connection which will allow the molar to move relative to the support plate;
- spring means (144 and 146), acting to bias the or each molar gripped by a side piece away from the front of a user's mouth by transmitting the resultant force to said support plate, with no tooth-borne component.

## In Reference to Claim 2:

The orthodontic brace of claim 1 wherein the spring means is incorporated into the side pieces (paragraph 3). Figure 5 shows the springs 144 and 146 being incorporated into the side pieces 102 and 104 respectively.

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# In Reference to Claim 3:

The orthodontic brace of claim 2 wherein the spring means are adjustable (paragraph 37).

# In Reference to Claim 4:

The orthodontic brace of claim 1 further comprising attachment means (108 and 110), located on the support plate for attachment of restraining means to temporarily restrain the action of the spring means to facilitate fitting of the brace. The anchoring elements 108 and 110 are located on the support plate and can be used to attach restraining means (such as a wire) which can be looped around the spring to temporarily restrain the spring's tension.

# In Reference to Claim 5:

An orthodontic brace of claim 1 wherein the support plate is contoured to the vertical and horizontal parts of the palate and the rughae (106; paragraph 34).

#### Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Yousefian (U.S. Patent No. 5,829,970), and Keles (U.S. Patent No. 6,626,665 B1) have been included because molar distalization appliances are disclosed.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hao D. Mai whose telephone number is (571) 270-3002. The examiner can normally be reached on Mon-Thur 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Bomberge can be reached at (571) 272-4922. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HDM 6/20/2007

THAO X. LE PRIMARY PATENT EXAMINER